ELSEVIER

Journal of Hydrology 207 (1998) 290–291

Journal of Hydrology

Contents of Volume 207

Vol. 207 Nos. 1–2 **JUNE 5 1998**

Research Papers

Numerical experiments on the residence time distributions of heterogeneous groundwatersheds
K.H. Luther and H.M. Haitjema 1

Rainfall-recharge relationships within a karstic terrain in the Eastern Mediterranean semi-arid region, Israel: $\delta^{18}O$ and δD characteristics
A. Ayalon, M. Bar-Matthews and E. Sass 18

Estimation of rainfall storage capacity in the canopies of cypress wetlands and slash pine uplands in North-Central Florida
S. Liu 32

Water and solute transfer between a prairie wetland and adjacent uplands, 1. Water balance
M. Hayashi, G. van der Kamp and D.L. Rudolph 42

Water and solute transfer between a prairie wetland and adjacent uplands, 2. Chloride cycle
M. Hayashi, G. van der Kamp and D.L. Rudolph 56

Towards areal estimation of soil water content from point measurements: time and space stability of mean response
R.B. Grayson and A.W. Western 68

Parameter identifiability for catchment-scale erosion modelling: a comparison of optimization algorithms
V.L. Freedman, V.L. Lopes and M. Hernandez 83

Flow and transport processes in a macroporous subsurface-drained glacial till soil I: Field investigations
K.G. Villholth, K.H. Jensen and J. Fredericia 98

Flow and transport processes in a macroporous subsurface-drained glacial till soil II: Model analysis
K.G. Villholth and K.H. Jensen 122

Discussion

Technical comment on: "On the stochastic theory of solute transport by unsteady and steady groundwater flow in heterogeneous aquifiers" by M.L. Kavvas and A. Karakas (Journal of Hydrology Vol. 179 (1996) 321–351)
Z.J. Kabala and G. Sposito 137

Response to comments of Z.J. Kabala and G. Sposito on the paper "On the stochastic theory of solute transport by unsteady and steady groundwater flow in heterogeneous aquifiers" by M.L. Kavvas and A. Karakas (Journal of Hydrology Vol. 179 (1996) 321–351)
M.L. Kavvas and A. Karakas 140

Book review

Water Wells: Implementation, Maintenance, and Restoration, Z.J. Kabala 145

Vol. 207 Nos. 3–4 **JUNE 25 1998**

Research Papers

Potential evaporation functions compared on US watersheds: Possible implications for global-scale water balance and terrestrial ecosystem modeling
C.J. Vörösmarty, C.A. Federer, and A.L. Schloss 147

Deconvolution of a nonparametric transfer function for solute transport in soils
T.H. Skaggs, Z.J. Kabala and W.A. Jury 170

The quality of the groundwater in the Netherlands
H.F.R. Reijnders, G. van Drecht, H.F. Prins and L.J.M. Boumans 179

The morphology of landscape elements as predictors of water quality in glacial/boreal lakes
T. Thierfelder 189

ELSEVIER

Journal of Hydrology 207 (1998) 290–291

Journal of Hydrology

Contents of Volume 207

Vol. 207 Nos. 1–2 **JUNE 5 1998**

Research Papers

Numerical experiments on the residence time distributions of heterogeneous groundwatersheds
K.H. Luther and H.M. Haitjema 1

Rainfall-recharge relationships within a karstic terrain in the Eastern Mediterranean semi-arid region, Israel: $\delta^{18}O$ and δD characteristics
A. Ayalon, M. Bar-Matthews and E. Sass 18

Estimation of rainfall storage capacity in the canopies of cypress wetlands and slash pine uplands in North-Central Florida
S. Liu 32

Water and solute transfer between a prairie wetland and adjacent uplands, 1. Water balance
M. Hayashi, G. van der Kamp and D.L. Rudolph 42

Water and solute transfer between a prairie wetland and adjacent uplands, 2. Chloride cycle
M. Hayashi, G. van der Kamp and D.L. Rudolph 56

Towards areal estimation of soil water content from point measurements: time and space stability of mean response
R.B. Grayson and A.W. Western 68

Parameter identifiability for catchment-scale erosion modelling: a comparison of optimization algorithms
V.L. Freedman, V.L. Lopes and M. Hernandez 83

Flow and transport processes in a macroporous subsurface-drained glacial till soil I: Field investigations
K.G. Villholth, K.H. Jensen and J. Fredericia 98

Flow and transport processes in a macroporous subsurface-drained glacial till soil II: Model analysis
K.G. Villholth and K.H. Jensen 122

Discussion

Technical comment on: "On the stochastic theory of solute transport by unsteady and steady groundwater flow in heterogeneous aquifiers" by M.L. Kavvas and A. Karakas (Journal of Hydrology Vol. 179 (1996) 321–351)
Z.J. Kabala and G. Sposito 137

Response to comments of Z.J. Kabala and G. Sposito on the paper "On the stochastic theory of solute transport by unsteady and steady groundwater flow in heterogeneous aquifiers" by M.L. Kavvas and A. Karakas (Journal of Hydrology Vol. 179 (1996) 321–351)
M.L. Kavvas and A. Karakas 140

Book review

Water Wells: Implementation, Maintenance, and Restoration, Z.J. Kabala 145

Vol. 207 Nos. 3–4 **JUNE 25 1998**

Research Papers

Potential evaporation functions compared on US watersheds: Possible implications for global-scale water balance and terrestrial ecosystem modeling
C.J. Vörösmarty, C.A. Federer, and A.L. Schloss 147

Deconvolution of a nonparametric transfer function for solute transport in soils
T.H. Skaggs, Z.J. Kabala and W.A. Jury 170

The quality of the groundwater in the Netherlands
H.F.R. Reijnders, G. van Drecht, H.F. Prins and L.J.M. Boumans 179

The morphology of landscape elements as predictors of water quality in glacial/boreal lakes
T. Thierfelder 189

Frequency and magnitude of runoff events in the arid Negev of Israel
L. Meirovich, A. Ben-Zvi, I. Shentsis and E. Yanovich 204
The dual pumping technique (DPT) for level-determined sampling in fully screened groundwater wells
M.C. Rapp, C. Fulda, W. Schäfer and W. Kinzelbach 220
Origin and function of a closed depression in equatorial humid zones: the Lake Télé in North Congo
A. Laraque, B. Pouyaud, R. Rocchia, E. Robin, I. Chaffaut, J.M. Moutsambote, B. Maziezoula, C. Censier, Y. Albouy, H. Elenga, H. Etcheber, M. Delaune, F. Sondag and F. Gasse 236
Stochastic simulation of transmissivity fields conditional to both transmissivity and piezometric head data—3. Application to the Culebra Formation at the Waste Isolation Pilot Plan (WIPP), New Mexico, USA
J.E. Capilla, J.J. Gómez-Hernández and A. Sahuquillo 254
Recent trends in diurnal variation of precipitation at Valentia on the west coast of Ireland
G. Kiely, J.D. Albertson and M.B. Parlange 270

Discussion

Comment on "A deterministic–empirical model of the effect of the capillary-fringe on near-stream area runoff. 1. Description of the model" by Jayatilaka, C. J. and Gillham, R. W. (Journal of Hydrology Vol. 184 (1996) 299–315)
J.J. McDonnell and J.M. Buttle 280
Response to Comment by J.J. McDonnell and J.M. Buttle on "A deterministic–empirical model of the effect of the capillary-fringe on near-stream area runoff. 1. Description of the model" (Journal of Hydrology Vol. 184 (1996) 299–315)
R.W. Gillham and C.J. Jayatilaka 286

Contents of volume 207 290